PATENT COOPERATION TREATY



From the INTERNATION BUREAU

To

SUGIURA, Masatomo 7th Floor, Ikebukuro Park Bldg. 49-7, Minami Ikebukuro 2-chome Toshima-ku, Tokyo 171-0022 JAPON

NOTIFICATION OF TRANSMITTAL
OF COPIES OF TRANSLATION
OF THE INTERNATIONAL PRELIMINARY REPORT
ON PATENTABILITY
(CHAPTER I OR CHAPTER II
OF THE PATENT COOPERATION TREATY)

(PCT Rule 72.2)

Date of mailing (day/month/year) 14 July 2005 (14.07.2005)

Applicant's or agent's file reference S03P1352WO00

International application No. PCT/JP2003/014698

IMPORTANT NOTIFICATION

International filing date (day/month/year)
19 November 2003 (19.11.2003)

Applicant

SONY CORPORATION et al

1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CN, KR

The following elected Offices, having waived the requirement for such a transmittal at this time, will receive copies of that translation from the International Bureau only upon their request:

us

3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland

Authorized officer

Masashi Honda

Facsimile No.+41 22 740 14 35

Facsimile No.+41 22 338 70 10

Translation





PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference S03P1352WO00	FOR FURTHER A	CTION	See Form PCT/IPEA/416			
	7		15: 5 14:41			
International application No.	International filing da	· ·	Priority date (day/month/year)			
PCT/JP2003/014698	19 November 20	003 (19.11.2003)	26 November 2002 (26.11.2002)			
International Patent Classification (IPC) or n H04B 1/16, H04N 5/445	ational classification ar	nd IPC				
Applicant	SONY COR	PORATION				
This report is the international prelin Authority under Article 35 and trans			International Preliminary Examining 6.			
2. This REPORT consists of a total of	4 sheets	, including this cover s	heet.			
3. This report is also accompanied by A	ANNEXES, comprising	;:				
a. (sent to the applicant and	to the International Bu	ureau) a total of 2	sheets, as follows:			
	taining rectifications au		een amended and are the basis of this report ority (see Rule 70.16 and Section 607 of the			
	sure in the internationa		considers contain an amendment that goes as indicated in item 4 of Box No. I and the			
	, containdicated in the Suppler	ining a sequence listin	pe and number of electronic carrier(s)) g and/or tables related thereto, in computer b Sequence Listing (see Section 802 of the			
4. This report contains indications rela	ting to the following ite	ems:				
Box No. I Basis of the re	port					
Box No. II Priority						
Box No. III Non-establish	ment of opinion with re	gard to novelty, invent	tive step and industrial applicability			
Box No. IV Lack of unity of invention						
Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;						
citations and explanations supporting such statement Box No. VI Certain documents cited						
Box No. VII Certain defects in the international application						
	ations on the internation	_				
Date of submission of the demand Date of completion of this report						
21 May 2004 (21.05.2004)		30 November 2004 (30.11.2004)				
Name and mailing address of the IPEA/JP		Authorized officer	· · · · · · · · · · · · · · · · · · ·			
Faccincile No.		Talankana Na				



INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Intermonal application No.

PCT/JP2003/014698

Box No.	I	Basis of the report		
		d to the language, this report is based on the inte	mational application in the languag	e in which it was filed, unless
		s report is based on translations from the origin the is language of a translation furnished for the p		nguage,
		international search (under Rules 12.3 and 23.1	(b))	
		publication of the international application (und	der Rule 12.4)	
		international preliminary examination (under R	ules 55.2 and/or 55.3)	
furnis	hed to re not	ed to the elements of the international applica to the receiving Office in response to an invitation to annexed to this report):	on under Article 14 are referred to	
		international application as originally filed/furnis	hed	
\boxtimes	the de	escription:	•	
	pages			, as originally filed/furnished
	pages		ceived by this Authority onceived by this Authority on	
K-21			corved by this remaining on	
\boxtimes		laims:		an animally Elad/Essaigh ad
	pages		as amended (togethe	, as originally filed/furnished r with any statement) under Article 19
	pages		ceived by this Authority on	with any statement, under receive 15
	pages		ceived by this Authority on	
\square				
	pages	rawings: s 1-8	!	, as originally filed/furnished
	pages	·	ceived by this Authority on	, as originary mod rannoned
	pages		ceived by this Authority on	
	2 500	uence listing and/or any related table(s) – see Su	nniamental Boy Pelating to Segue	ace I isting
لـــا	a soq	action is ming and or any rotated tactors, and ou	ppiomonan box Rolling to boque	
. 🔽	C			
3.	The a	amendments have resulted in the cancellation of:	• *	
	Ц	the description, pages		
	\boxtimes	the claims, Nos. 3, 4, 6	5, 7	
		the drawings, sheets/figs		
		the sequence listing (specify):	-	
	• • • • • • • • • • • • • • • • • • •			
	made	report has been established as if (some of) the e, since they have been considered to go beyo e 70.2(c)).		
		the description, pages		
		the claims, Nos.	·	
		the drawings, sheets/figs		
		the sequence listing (specify):		
		any table(s) related to sequence listing (specify,	:	
* If item	4 apį	plies, some or all of those sheets may be marked	"superseded."	

v.	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

Statement			
Novelty (N)	Claims	1, 2, 5, 8, 9	YES
	Claims		NO
Inventive step (IS)	Claims		YES
	Claims	1, 2, 5, 8, 9	NO
Industrial applicability (IA)	Claims	1, 2, 5, 8, 9	YES
	Claims		NO

Citations and explanations

Document 1: JP 2-46045 A (Toshiba Corp.), 15 February

1990

Document 2: JP 2000-138722 A (Matsushita Electric

Industrial Co., Ltd.), 16 May 2000

Document 3: JP 2001-24620 A (Matsushita Electric

Industrial Co., Ltd.), 26 January 2001

The inventions described in claims 1, 2, 5, 8, and 9 do not involve an inventive step in the light of document 1 or document 2 and document 3 cited in the international search report.

Document 1 (claim 1, claim 2, page 4, lower left column, lines 6 to 20, fig. 2, fig. 3) discloses an invention for use in QPSK signal demodulation, wherein the dispersion of an amplitude component and the dispersion of a phase component are compared, and when dispersion in the phase component is greater, phase noise is determined to be present, and the bandwidth of a loop filter is controlled according to the size of the phase noise.

Document 2 (claim 3, paragraphs [0066] to [0068], fig. 11) discloses an invention of a PSK demodulator wherein the amount of phase noise in an input signal is detected from the ratio of error in the amplitude direction to error in the phase direction at the encoding

point of the demodulated signal, and automatic adjustments are made so that the loop gain in the second-stage carrier wave playback loop is optimized.

Meanwhile, as disclosed in document 3 (paragraph [0015], fig. 3), which discloses an invention of a digital signal-receiving device wherein when phase modulation is used as the carrier modulation method, a phase threshold value is provided as the threshold value for a signal space diagram, and when a symbol point exceeding the threshold value occurs, an indicator is made to light up, thereby notifying of signal-receiving status, the provision of a signal-receiving status indicator part that makes it possible for a user to determine signal-receiving status is nothing more than standard practice in the field of signal-receiving devices; thus, upon consideration of user convenience, a person skilled in the art could easily conceive of providing a signal-receiving status indicator part such as the one found in document 3 on the invention disclosed in document 1 or document 2.